

What is claimed is;

1. An electronic toothbrush comprising:

a brush head portion having a bristle portion (2a),
to be inserted into an oral cavity, for washing teeth; and
a holder portion to be exposed outside the oral cavity,
an n-type semiconductor is provided so as to be capable
of receiving external light; and

a battery is provided so as to be capable of superposing
an electric potential on the n-type semiconductor.

2. The electronic toothbrush according to claim 1, wherein
the n-type semiconductor is TiO_2 , and output of the battery
is more than 0.5 V and less than 3.0 V.

3. The electronic toothbrush according to claim 1 or 2,
wherein the battery is either one of a primary battery, a
secondary battery and a solar battery, or combination thereof.

4. The electronic toothbrush according to claim 2 or 3,
wherein the TiO_2 is an anatase-type crystal.

5. The electronic toothbrush according to any one of claims
2 to 4, wherein the TiO_2 is rod like and incorporated into
the brush head portion, while the battery is button like,
and these battery and the TiO_2 are made conductive via a
conductive line incorporated into the brush head portion.

6. An electronic brush comprising:

a brush head portion having a bristle portion,
characterized in that:

an n-type semiconductor is provided so as to be capable of receiving external light; and

a battery is provided so as to be capable of superposing an electric potential on the n-type semiconductor.

7. The electronic brush according to claim 6, wherein the n-type semiconductor is TiO_2 , and output of the battery is more than 0.5 V and less than 3.0 V.

8. The electronic brush according to claim 6 or 7, wherein the battery is either one of a primary battery, a secondary battery and a solar battery, or combination thereof.

9. The electronic brush according to claim 7 or 8, wherein the TiO_2 is an anatase-type crystal.

10. The electronic brush according to any one of claims 7 to 9, wherein the battery is embedded in the holder portion following the brush head portion, while the TiO_2 is attached in the vicinity of the brush head portion, and these battery and the TiO_2 are made conductive via a conductive line.